

**ABSTRACT OF THE DISCLOSURE**

Methods and apparatuses consistent with the present invention provide for improved cleaning while minimizing mechanical damage to clothes in automatic washer cycles using time-varying wash chamber oscillations. An automatic washer has a wash chamber with a central axis and is rotatable about the central axis. Items are loaded into the wash chamber. Wash liquid is supplied into the wash chamber. The wash chamber is oscillated about the central axis by time-varying oscillations.

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